

Amendments to the Specification:

Please add the following new paragraph after the paragraph ending at page 1, line 10:

-- Summary of the Invention

In one aspect, the invention features a memory for storing data for access by a longest prefix match program being executed on a data processing system, including a data structure stored in the memory, the data structure including information resident in a database used by the longest prefix match program and including a large table at a root, the root branching to nodes containing small trie tables, each trie table addressed by a span of Internet protocol (IP) address bits to locate an indexed trie entry, the indexed trie entry including a route pointer and a trie pointer. --